

Table A-13. Federal funds for industrial R&D performance in the U.S., by industry and size of company: 1997–2000

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Industry and size of company	NAICS codes	1997	1998	1999 ¹	2000
		[In millions of dollars]			
Distribution by industry:					
All industries ²	21-23, 31-33, 42, 44-81	23,928	24,164	22,535	19,118
Manufacturing	31-33	--	--	17,055	13,328
Food.....	311	0	0	0	(D)
Beverage and tobacco products.....	312	0	0	0	0
Textiles, apparel, and leather.....	313-16	0	0	0	(D)
Wood products.....	321	0	5	0	0
Paper, printing and support activities.....	322, 323	(D)	(D)	(D)	(D)
Petroleum and coal products.....	324	(D)	5	(D)	(D)
Chemicals.....	325	107	236	194	150
Basic chemicals.....	3251	19	143	98	31
Resin, synthetic rubber, fibers, and filament.....	3252	(D)	(D)	(D)	11
Pharmaceuticals and medicines.....	3254	(D)	(D)	(D)	(D)
Other chemicals.....	325 (minus 3251-52, 3254)	(D)	(D)	(D)	(D)
Plastics and rubber products.....	326	(S)	4	0	(D)
Nonmetallic mineral products.....	327	2	(D)	(D)	1
Primary metals.....	331	238	(D)	12 (S)	26
Fabricated metal products.....	332	53	54	46	41
Machinery.....	333	141	(D) (S)	399	41
Computer and electronic products.....	334	4,291	6,336	5,993	5,544
Computers and peripheral equipment.....	3341	(D)	(D)	(D)	0
Communications equipment.....	3342	180	518	206	432
Semiconductor and other electronic components.....	3344	(D)	59	77	107
Navigational, measuring, electromedical, and control instruments.....	3345	3,371	5,749	5,705	5,002
Other computer and electronic products.....	334 (minus 3341-42, 3344-45)	6	(D)	(D)	3
Electrical equipment, appliances, and components.....	335	160	141	(D)	(D)
Transportation equipment.....	336	12,709	10,682	10,037	7,168
Motor vehicles, trailers, and parts.....	3361-63	(D)	(D)	(D)	(D)
Aerospace products and parts.....	3364	10,904	9,838	9,117	6,424
Other transportation equipment.....	336 (minus 3361-64)	(D)	(D)	(D)	(D)
Furniture and related products.....	337	0	0	0	0
Miscellaneous manufacturing.....	339	10	(D)	26	12
Medical equipment and supplies.....	3391	10	(D)	(D)	(D)
Other miscellaneous manufacturing.....	339 (minus 3391)	0	0	(D)	(D)
Other manufacturing ³	31-33 (minus 311-16, 321-27, 331-37, 339)	--	--	--	--
Small manufacturing companies ⁴	Fewer than 50 employees	151	128	69	93

See explanatory information and SOURCE at end of table.

Table A-13. Federal funds for industrial R&D performance in the U.S., by industry and size of company: 1997–2000

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		[In millions of dollars]			
Distribution by industry:					
Nonmanufacturing	21–23, 42, 44–81	--	--	5,479	5,790
Mining, extraction, and support activities.....	21	(D)	(D)	(D)	1
Utilities.....	22	(D)	(D)	17	(D)
Construction.....	23	1	(D)	2	(D)
Trade.....	42, 44, 45	(D) (S)	77	95	30
Transportation and warehousing.....	48, 49	(D)	0	0	(D)
Information.....	51	404	556	497 (S)	540
Publishing.....	511	47	67	49	78
Newspaper, periodical, book, and database.....	5111	0	0	0	0
Software.....	5112	47	67	49	78
Broadcasting and telecommunications.....	513	(D)	(D)	(D) (S)	382
Radio and television broadcasting.....	5131	(D)	(D)	(D)	(D)
Telecommunications.....	5133	(D)	(D)	(D)	(D)
Other broadcasting and telecommunications.....	513 (minus 5131, 5133)	0	0	13	0
Other information.....	51 (minus 511, 513)	(D)	(D)	(D)	81
Finance, insurance, and real estate.....	52, 53	(D)	(D)	(D)	0
Professional, scientific, and technical services.....	54	3,620	4,728	4,615	4,628
Architectural, engineering, and related services.....	5413	1,058	1,775	1,177	1,149
Computer systems design and related services.....	5415	(D)	(D)	(D)	226
Scientific R&D services.....	5417 (S)	2,334 (S)	2,615	3,057	3,177
Other professional, scientific, and technical services.....	54 (minus 5413, 5415, 5417)	(D)	(D)	(D)	77
Management of companies and enterprises.....	55	0	0	(D)	0
Health care services.....	621–23	4	32	10	59
Other nonmanufacturing ³	56, 61, 624, 71, 72, 81	42	29	(D)	18
Small nonmanufacturing companies ⁴	Fewer than 15 employees	(D)	522	227	494

See explanatory information and SOURCE at end of table.

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Industry and size of company	NAICS codes	1997	1998	1999 ¹	2000
		[In millions of dollars]			
Distribution by size of company: [Number of employees]					
Total.....	(na)	23,928	24,164	22,535	19,118
5 to 24.....	(na)	468	638	611	922
25 to 49.....	(na)	283	466	368	222
50 to 99.....	(na)	431	581	603	514
100 to 249.....	(na)	572	1,186	674	669
250 to 499.....	(na)	456	565	485	660
500 to 999.....	(na)	376	363	591	495
1,000 to 4,999.....	(na)	540	620	896	775
5,000 to 9,999.....	(na)	612	536	2,194	1,625
10,000 to 24,999.....	(na)	913 (S)	955	397	678
25,000 or more.....	(na)	19,277	18,253	15,717	12,559

¹ Some statistics for 1999 have been revised since originally published.

² The totals for "all industries" prior to 1999 are identical to corresponding totals previously published using the Standard Industrial Classification (SIC) system. Also, pre-1999 detail published using the North American Industry Classification System (NAICS) may not add to the totals. See the 'NOTES' below.

³ Manufacturing companies in the 1997 and 1998 samples that could not be classified with a NAICS code are included in "other manufacturing;" nonmanufacturing companies that could not be classified with a NAICS code are included in "other nonmanufacturing."

⁴ The frame from which the statistical sample was selected was divided into two partitions based on total company employment. In the manufacturing sector, companies with employment of 50 or more were included in the large company partition. In the nonmanufacturing sector, companies with employment of 15 or more were included in the large company partition. Companies in the respective sectors with employment below these values, but with at least 5 employees, were included in the small company partition. The purpose of partitioning the sample this way was to reduce the variability in industry estimates largely attributed to the random year-to-year selection of small companies by industry and the high sampling weights that sometimes were assigned to them. Because of this, detailed industry statistics were possible only from the large company partition; detailed industry statistics from the small company partition were not possible. Statistics from the small company partition are shown separately and are included in manufacturing, nonmanufacturing, and all industries totals. For more information, see "frame creation" and "sample selection" in the technical notes in Section B.

KEY: (D) = Data have been withheld to avoid disclosing operations of individual companies.

(S) = Indicates imputation of more than 50 percent.

(--) = Indicates data not collected.

(na) = Not applicable.

NOTES: Starting with the 1999 survey, estimates are based on the North American Industry Classification System (NAICS). In prior years, estimates were based on the Standard Industrial Classification (SIC) system. For this table, companies in the 1997 and 1998 surveys were assigned NAICS industry codes based on their SIC industry codes. Consequently, the estimates for 1997 and 1998 in this table are not necessarily representative of the NAICS categories of industries in those years. They are included for comparison purposes only.

The R&D in this table is the industrial R&D performed within company facilities funded by the Federal Government. Excluded from this table are R&D not performed within the company (e.g., R&D contracted out to other organizations) and R&D not performed in the U.S. (e.g., R&D not performed on U.S. soil by foreign subsidiaries or other foreign organizations).

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 2000